

XXIII. *Astronomical Observations made by Samuel Holland Esquire, His Majesty's Surveyor General of Lands for the Northern District of North America, for ascertaining the Longitude of several Places in the said District. Communicated by the Astronomer Royal.*

Redde, Jan. 20, 1774.

KITTERY POINT, in the province of MAIN, in
PISCATAQUA harbour.

Latitude $\left\{ \begin{array}{l} \text{by result of repeated observations,} \\ \text{of } \odot \text{ and fixed } \star\text{'s, made with} \\ \text{BIRD's astronomical quadrant,} \end{array} \right\} 43^{\circ} 4' 27'' \text{N.}$

Observed, with DOLLOND's 12 feet refracting telescope,

Immersion and Emerfions of 4's fatellites as follow,

	1771	Apparent time. h / "
April 11th, an immersion of the 1st, at	15 43 30	
27th, same	same 14 1 43	
May 4th, same	same, 15 55 54	

The VARIATION of the COMPASS at this place,
is $7^{\circ} 46'$ West.

PORTSMOUTH,

PORTSMOUTH, province of NEW HAMPSHIRE.

Latitude { by result of repeated observations, }
 { of ☉ and fixed *'s, made with } 43° 4' 15" N.
 BIRD'S astronomical quadrant,

Observed, with DOLLOND'S 12 feet refracting telescope,

Immersion and Emersions of 4's satellites as follow,

		Apparent time.		
		h	'	"
1772,				
Sept.	6th, an emerfion of the 2d, at	11	9	20
	18th, fame	1ft,	9	42 35
Oct.	11th, fame	fame,	10	5 4
Nov.	3d, fame	fame,	10	23 54
	9th, fame	2d,	10	51 39
	12th, fame	1ft,	6	48 1
	* 19th, fame	fame,	8	42 41
	23d, immerged entirely,	3d	6	8 6
	fame, began to emerge,	fame,	9	28 14
Dec.	4th, an emerfion.	2d,	7	50 0
	5th, fame,	1ft,	6	57 44

The VARIATION of the COMPASS at this place is 7° 48' West.

All these obfervations were made by time kept by GRAHAM'S time-piece, with a gridiron pendulum, rectified occasionally by equal altitudes of the Sun, corrected agreeably to the tables of M. DE LA LANDE, for the alteration of the declination in the intervals of corresponding obfervations.

SAMUEL HOLLAND.

* This fatellite in emerging was in conjunction with another, which occasioned fuch a deception as to render this obfervation uncertain about 20 feconds fooner than what is marked here.

XXIV. Obfer-